Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	688	(application adj server)with ((dynamic$5 or user adj (activat$4 or enabl$4 or select$4) or automatic$5 near3 (re$boot$4 or rest$4 or initializ$7 or reconfigur$7 or reprovision$4)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:13
L2	0	l1 same ((dynamic$4 near4 (load$4 or instal$4))with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:15
L3	0	l1 and ((dynamic$4 near4 (load$4 or instal$4))with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:35
L4	66	l1 and ((dynamic$4 near4 (load$4 or instal$4))with application$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:16
L5	17	l4 and ((remov$4)with application$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:34
L6	22	l4 and ((remov$4 or disabl$4)with application$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:18
L7	0	l6 and ((first or one)with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:18
L8	5647	((switch$4 or transfer$4 or load$4 or remov$4)near3 (application or service$1))with server	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:35

L9	4	l8 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:40
L10	23997	"711"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:49
L11	13	l10 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:45
L12	8	((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:47
L13	0	l1 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:47
L14	47656	"714"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:47
L15	1	l14 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:49
L16	23110	"713"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:49

L17	1	l16 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 07:50
L18	7756	"717"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:11
L19	0	l18 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:12
L20	3	(automatic near2 provisioning) near5 (appliance adj2 server)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:10
L21	12	(automatic near2 provisioning) near5 (server)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:12
L22	3	l21 and ((hard$drive or (hard near2 (disk or drive)))near3 partition$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:12
L23	33448	"709"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:11
L24	0	l23 and ((dynamic$4 near4 (load$4 or instal$4 or switch$4))near5 (application or servic$2) with partition$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:12

L25	76	l23 and ((hard$drive or (hard near2 (disk or drive)))near3 partition$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:12
L26	0	l25 and ((automatic near2 provisioning) near5 (server))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:13
L27	0	l25 and ((automatic near2 provisioning))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:13
L28	0	l25 and ((provisioning near3 utility))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:14
L29	14	l23 and ((provisioning near3 utility))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:14
L30	2	l23 and ((provisioning near3 utility)same (application near3 program))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/14 08:14

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1 **High-oxidation state salts of BEDT-TTF**
Tatham, D.R.; Liang-Kuei Chou; Abboud, K.A.;
Science and Technology of Synthetic Metals, 1994. ICSM '94. International Conference on , July 24-29, 1994
Pages:393 - 393

[Abstract] [PDF Full-Text (202KB)] **IEEE CNF**

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1 Internet nuggets: Internet nuggets

Mark Thorson
September 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 4
Full text available: pdf(617.72 KB) Additional Information: full citation

2 A brief survey of current work on network attached peripherals (extended abstract)

Rodney Van Meter
January 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 1
Full text available: pdf(725.39 KB) Additional Information: full citation, abstract, citings, index terms

Work on network-attached peripherals (NAPs) can be divided into essentially three areas --- device interfaces and protocols, multimedia use and mass storage use. This paper is an extended abstract reviewing some of the current work and provides references and WWW pointers to many of the projects. The impact of this technological advance on operating systems is discussed. The primary purpose of this paper is to broaden understanding of the advantages and pitfalls of NAPs and encourage further res ...

3 Reliability: Devirtualizable virtual machines enabling general, single-node, online maintenance

David E. Lowell, Yasushi Saito, Eileen J. Samberg
October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**
Full text available: pdf(174.01 KB) Additional Information: full citation, abstract, references, index terms

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, mak-ing maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during mainte ...

Keywords: availability, online maintenance, planned downtime, virtual machines

4 Approaches to fault-tolerant and transactional mobile agent execution---an algorithmic

view

Stefan Pleisch, André Schiper
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Full text available: pdf(946.94 KB) Additional Information: full citation, abstract, references, index terms

Over the past years, mobile agent technology has attracted considerable attention, and a significant body of literature has been published. To further develop mobile agent technology, reliability mechanisms such as fault tolerance and transaction support are required. This article aims at structuring the field of fault-tolerant and transactional mobile agent execution and thus at guiding the reader to understand the basic strengths and weaknesses of existing approaches. It starts with a discu ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronous system, commit, crash failures, fault tolerance, malicious places, mobile agents, replication, security, transaction

5 Interconnect design and optimization: Topology optimization for application-specific networks-on-chip

Tapani Ahonen, David A. Sigüenza-Tortosa, Hong Bin, Jari Nurmi
February 2004 **Proceedings of the 2004 international workshop on System level interconnect prediction**

Full text available: pdf(624.12 KB) Additional Information: full citation, abstract, references, index terms

Compared to the well understood macro networks, networks-on-chip introduce novel design challenges. The characteristics of the system data flows and the knowledge of the required wire lengths can be exploited to optimize for speed and power consumption. A component library for flexible construction of interconnection architectures is being developed at the Tampere University of Technology to enable the creation of application development platforms. The overall design flow of these development pl ...

Keywords: application-specific network, network-on-chip, platform design, topology optimization

6 Workshop on testing, analysis and verification of web services (TAV-WEB) papers: Testing web database applications

Yuetang Deng, Phyllis Frankl, Jiong Wang
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Full text available: pdf(110.98 KB) Additional Information: full citation, abstract, references

Commercial, scientific, and social activities are increasingly becoming dependent on Web database applications. New testing techniques that handle the unique features of these systems are needed. To that end, we have extended AGENDA, a tool set for testing relational database applications, to test web database applications. Application source code is analyzed to extract relevant information about the URLs and their parameters. This information is used to construct and simplify a graph in which n ...

Keywords: database, software testing, web application

7 Proceedings - only: Distributed object invocation in OBIWAN

Luís Veiga, João Garcia, João Silva, Paulo Ferreira
September 2000 **Proceedings of the 9th w rkshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(224.75 KB) Additional Information: full citation, abstract, references

The need for sharing is well-known in a large number of distributed collaborative applications. These applications are difficult to develop for an environment in which network connections are slow and not reliable.For this purpose, we developed a platform called OBIWAN that: i) allows the application programmer to decide the mechanism by which objects should be invoked, remote method invocation or invocation on a local replica, and ii) provides hooks for the application programmer to implement a ...

8 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

9 Session 5: Distributed storage: Let's put NetApp and CacheFlow out of business!

Eran Gabber, Elizabeth Shriver
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(182.20 KB) Additional Information: full citation, abstract, references, citings

We believe that a lightweight and portable specialized file system library can provide applications with performance close to that of special-built appliances running on closed proprietary operating systems. Moreover, the application may execute on commodity hardware with a general-purpose operating system, and with minimal changes to the application source code. Such a file system would allow anyone to build cheap, high-performance appliances. We present the design of Hummingbird, a file system ...

10 Mobile computing: DataMan project perspective

Tomasz Imielinski
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Full text available: pdf(239.53 KB) Additional Information: full citation, abstract, references, index terms

The objective of mobile computing is to develop system and application level software for small, battery powered terminals equipped with the wireless network connection. There is a rapidly growing interest in this field with companies spending billions of dollars developing technology and buying spectrum in the recent PCS auctions. In this paper we offer a perspective of mobile computing from the standpoint of our own research project at Rutgers University. The DataMan project (T.Imielinski ...

11 *Firmato*: A novel firewall management toolkit

Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available: pdf(917.80 KB) Additional Information: full citation, abstract, references, index terms

In recent years packet-filtering firewalls have seen some impressive technological advances

(e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security management technology is lacking. In this paper we present Firmato, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

12 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

13 Disconnected operation in the Coda File System

James J. Kistler, M. Satyanarayanan
February 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 1

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Disconnected operation is a mode of operation that enables a client to continue accessing critical data during temporary failures of a shared data repository. An important, though not exclusive, application of disconnected operation is in supporting portable computers. In this paper, we show that disconnected operation is feasible, efficient and usable by describing its design and implementation in the Coda File System. The central idea behind our work is that cachi ...

Keywords: disconnected operation, hoarding, optimistic replication, reintegration, second-class replication, server emulation

14 Promises and reality: Performance measurements of a user-space DAFS server with a database workload

Samuel A. Fineberg, Don Wilson
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**

Full text available: pdf(366.48 KB) Additional Information: full citation, abstract, references, index terms

We evaluate the performance of a user-space Direct Access File System (DAFS) server and Oracle Disk Manager (ODM) client using two synthetic test codes as well as the Oracle database. Tests were run on 4-processor Intel Xeon-based systems running Windows 2000. The systems were connected with ServerNet II, a Virtual Interface Architecture (VIA) compliant system area network. We compare the performance of DAFS/ODM and local-disk based I/O, measuring I/O bandwidth and latency. We also compare the r ...

Keywords: DAFS, Database, File Systems, I/O, Networks, Performance Evaluation, RDMA

15 Disconnected operation in the Coda file system

James J. Kistler, M. Satyanarayanan
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25 Issue 5

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

Disconnected operation is a mode of operation that enables a client to continue accessing critical data during temporary failures of a shared data repository. An important, though not exclusive, application of disconnected operation is in supporting portable computers. In this paper, we show that disconnected operation is feasible, efficient and usable by describing its design and implementation in the Coda File System. The central idea behind our work is that *caching of data*, now ...

16 Deploying the Squid Proxy Server on Linux

Ian Spare
March 2001 **Linux Journal**

Full text available: html(24.89 KB) Additional Information: full citation, abstract, references, index terms

Ian gives an example of the installation, configuration and maintenance of this multi-tentacled invertebrate proxy server.

17 Replication requirements in mobile environments

David Ratner, Peter Reiher, Gerald J. Popek, Geoffrey H. Kuenning
November 2001 **Mobile Networks and Applications**, Volume 6 Issue 6

Full text available: pdf(162.59 KB) Additional Information: full citation, abstract, references, index terms

Replication is extremely important in mobile environments because nomadic users require local copies of important data. However, today's replication systems are not "mobile-ready". Instead of improving the mobile user's environment, the replication system actually hinders mobility and complicates mobile operation. Designed for stationary environments, the replication services do not and cannot provide mobile users with the capabilities they require. Replication in mobile environments requires fu ...

Keywords: file systems, mobile computing, replication

18 Promises and reality: Server I/O networks past, present, and future

Renato John Recio
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**

Full text available: pdf(225.62 KB) Additional Information: full citation, abstract, references, index terms

Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

Keywords: 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

19 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell
December 2003 **Personal and Ubiquitous C mputing**, Volume 7 Issue 6

Full text available: pdf(383.26 KB) Additional Information: full citation, abstract, index terms

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

20 Enabling dynamic content caching for database-driven web sites

K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(319.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*
Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

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1 Enabling dynamic content caching for database-driven web sites

K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

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Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

2 Reliability: Devirtualizable virtual machines enabling general, single-node, online maintenance

David E. Lowell, Yasushi Saito, Eileen J. Samberg

October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**

Full text available: pdf(174.01 KB) Additional Information: full citation, abstract, references, index terms

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, mak-ing maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during mainte ...

Keywords: availability, online maintenance, planned downtime, virtual machines

3 Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth**

ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

Internet hosting centers serve multiple service sites from a common hardware base. This paper presents the design and implementation of an architecture for resource management in a hosting center operating system, with an emphasis on *energy* as a driving resource management issue for large server clusters. The goals are to provision server resources for co-hosted services in a way that automatically adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

4 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

5 Characterizing the scalability of a large web-based shopping system

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available: pdf(261.91 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an analysis of five days of workload data from a large Web-based shopping system. The multitier environment of this Web-based shopping system includes Web servers, application servers, database servers, and an assortment of load-balancing and firewall appliances. We characterize user requests and sessions and determine their impact on system performance scalability. The purpose of our study is to assess scalability and support capacity planning exercises for the multit ...

Keywords: capacity planning, clustering, personalization, scalability analysis, web-based systems, workload characterization

6 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell
December 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 6

Full text available: pdf(383.26 KB) Additional Information: full citation, abstract, index terms

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

7 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2
Full text available: pdf(3.15 MB) Additional Information: full citation, index terms

8 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: pdf(414.73 KB) Additional Information: full citation, references, citings, index terms

9 Research sessions: distributed systems: Proxy-based acceleration of dynamically generated content on the world wide web: an approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra VanderMeer, Suresha, Krithi Ramamritham
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

As Internet traffic continues to grow and web sites become increasingly complex, performance and scalability are major issues for web sites. Web sites are increasingly relying on dynamic content generation applications to provide web site visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost --- each request requires computation as well as communication across multiple components.To address these issues, various dynamic content cach ...

Keywords: dynamic content, edge caching, proxy-based caching

10 Approaches to fault-tolerant and transactional mobile agent execution---an algorithmic view

Stefan Pleisch, André Schiper
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3
Full text available: pdf(946.94 KB) Additional Information: full citation, abstract, references, index terms

Over the past years, mobile agent technology has attracted considerable attention, and a significant body of literature has been published. To further develop mobile agent technology, reliability mechanisms such as fault tolerance and transaction support are required. This article aims at structuring the field of fault-tolerant and transactional mobile agent execution and thus at guiding the reader to understand the basic strengths and weaknesses of existing approaches. It starts with a discu ...

Keyw rds: ACID, Byzantine failures, agreement problem, asynchronous system, commit, crash failures, fault tolerance, malicious places, mobile agents, replication, security, transaction

11 The AROUND architecture for dynamic location-based services

Rui José, Adriano Moreira, Helena Rodrigues, Nigel Davies
August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

Full text available: pdf(194.30 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a generic concept of location-based service as an abstraction for supporting the association between computational resources and location. The objective is to extend the advantages of service-based architectures to the development of location-based systems, thus providing a more open and extensible alternative to the "vertical" approaches typically used in this type of system. The novel AROUND architecture is proposed as an approach for supporting location-based services in t ...

Keywords: info-mobility, location-based services, mobile computing, service discovery

12 Promises and reality: Server I/O networks past, present, and future

Renato John Recio
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**

Full text available: pdf(225.62 KB) Additional Information: full citation, abstract, references, index terms

Enterprise and technical customers place a diverse set of requirements on server I/O networks. In the past, no single network type has been able to satisfy all of these requirements. As a result several fabric types evolved and several interconnects emerged to satisfy a subset of the requirements. Recently several technologies have emerged that enable a single interconnect to be used as more than one fabric type. This paper will describe the requirements customers place on server I/O networks; t ...

Keywords: 10 GigE, Cluster, Cluster Networks, Gigabit Ethernet, I/O Expansion Network, IOEN, InfiniBand, LAN, PCI, PCI Express, RDMA, RNIC, SAN, Socket Extensions, TOE, iONIC, iSCSI, iSER

13 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

14 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

15 Application-layer mobility using SIP

Henning Schulzrinne, Elin Wedlund
July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, citings, index terms

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

16 Virtual machine monitors: Terra: a virtual machine-based platform for trusted computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Full text available: pdf(140.31 KB) Additional Information: full citation, abstract, references, index terms

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

17 Proceedings - only: Distributed object invocation in OBIWAN

Luís Veiga, João Garcia, João Silva, Paulo Ferreira
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**
Full text available: pdf(224.75 KB) Additional Information: full citation, abstract, references

The need for sharing is well-known in a large number of distributed collaborative applications. These applications are difficult to develop for an environment in which network connections are slow and not reliable.For this purpose, we developed a platform called OBIWAN that: i) allows the application programmer to decide the mechanism by which objects should be invoked, remote method invocation or invocation on a local replica, and ii) provides hooks for the application programmer to implement a ...

18 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools

Jack Greenfield, Keith Short
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**
Full text available: pdf(707.51 KB) Additional Information: full citation, abstract, references, index terms

The confluence of component based development, model driven development and software product lines forms an approach to application development based on the concept of software factories. This approach promises greater gains in productivity and predictability than those produced by incremental improvements to the current paradigm of object

orientation, which have not kept pace with innovation in platform technology. Software factories promise to make application assembly more cost effective thro ...

Keywords: design patterns, domain-specific languages, model-driven development, software factories, software product lines

19 Improving Java performance using hardware translation

Ramesh Radhakrishnan, Ravi Bhargava, Lizy K. John
June 2001 **Proceedings of the 15th international conference on Supercomputing**

Full text available: pdf(254.91 KB) Additional Information: full citation, abstract, references, citings, index terms

State of the art Java Virtual Machines with Just-In-Time (JIT) compilers make use of advanced compiler techniques, run-time profiling and adaptive compilation to improve performance. However, these techniques for alleviating performance bottlenecks are more effective in long running workloads, such as server applications. Short running Java programs, or client workloads, spend a large fraction of their execution time in compilation instead of useful execution when run using JIT compilers. In ...

20 Limits of wide-area thin-client computing

Albert Lai, Jason Nieh
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 30 Issue 1

Full text available: pdf(183.10 KB) Additional Information: full citation, abstract, references, citings

While many application service providers have proposed using thin-client computing to deliver computational services over the Internet, little work has been done to evaluate the effectiveness of thin-client computing in a wide-area network. To assess the potential of thin-client computing in the context of future commodity high-bandwidth Internet access, we have used a novel, non-invasive slow-motion benchmarking technique to evaluate the performance of several popular thin-client computing plat ...

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1 Applications, services, and architecture: Smart edge server: beyond a wireless access point

G. Manjunath, T. Simunic, V. Krishnan, J. Tourrilhes, D. Das, V. Srinivasmurthy, A. McReynolds

October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Full text available: pdf(410.68 KB) Additional Information: full citation, abstract, references, index terms

Wireless access at cafes, airports, homes and businesses have proliferated all over the globe with several different Wireless Internet Service Providers. Similarly, digital media has created a paradigm shift in media processing resulting in a complete change in media usage models, revamped existing businesses and has introduced new industry players. We believe there is a tremendous opportunity for application and system services at the intersection of the above two domains for exploiting the ...

Keywords: access point, low-power, management, media, security, wireless

2 A design flow for partially reconfigurable hardware

Ian Robertson, James Irvine

May 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 2

Full text available: pdf(698.30 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a top-down designer-driven design flow for creating hardware that exploits partial run-time reconfiguration. Computer-aided design (CAD) tools are presented, which complement conventional FPGA design environments to enable the specification, simulation (both functional and timing), synthesis, automatic placement and routing, partial configuration generation and control of partially reconfigurable designs. Collectively these tools constitute the dynamic circuit switching CAD f ...

Keywords: FPGA, Viterbi decoder, configuration control, dynamically reconfigurable logic (DRL), power estimation, run-time reconfiguration (RTR)

3 Special session on reconfigurable computing: Reconfigurable platforms for ubiquitous computing

Manfred Glesner, Thomas Hollstein, Leandro Soares Indrusiak, Peter Zipf, Thilo Pionteck, Mihail Petrov, Heiko Zimmer, Tudor Murgan

April 2004 **Proceedings f the first conference on computing frontiers on Computing**

frontiers

Full text available: pdf(479.97 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous computing requires flexibilty. Melting distributed electronic devices into everyday's life implies the need to adapt to evolving standards and dynamic environments. Furthermore, to gain user acceptance, such devices should be able to adapt to different usage patterns and user profiles. Scalability is also an important issue, allowing functional enhancements to already deployed systems. In this work we address these issues applying the concept of reconfigurability on different abstract ...

Keywords: communication, dynamic power management, networks-on-chip, reconfigurable hardware, reconfigurable processors, reconfiguration, ubiquitous computing

4 Staying secure in an insecure world: 802.1x secure wireless computer connectivity for students, faculty, and staff to the campus network

Steven K. Brawn, R. Mark Koan, Kelly Caye

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services**

Full text available: pdf(398.37 KB) Additional Information: full citation, abstract, references, index terms

During this past year, the ASU West IT Department has successfully implemented network connectivity throughout the campus for users who desire to use their computers in places other than the usual designated office spaces and computer labs. Students and staff alike can now access their network file shares, check email, browse the web, and work on projects while sitting in the cafeteria, out on the grass, or under the shade of a tree.

With the constant threat of virus attacks, Trojans, ...

Keywords: 802.1x, PEAP, VPN, authentication, dynamic WEP, wireless network

5 Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles**, Volume 35 Issue 5

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

Internet hosting centers serve multiple service sites from a common hardware base. This paper presents the design and implementation of an architecture for resource management in a hosting center operating system, with an emphasis on *energy* as a driving resource management issue for large server clusters. The goals are to provision server resources for co-hosted services in a way that automatically adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

6 Dynamic reconfiguration through OSA+, a real-time middleware

Etienne Schneider, Florentin Picioroag□, Uwe Brinkschulte

October 2004 **Proceedings of the 1st international doctoral symposium on Middleware**

Full text available: pdf(148.00 KB) Additional Information: full citation, abstract, references, index terms

The technology shows more and more powerful computers and systems. On the other hand, the needs in small embedded systems increase too, for e.g. PDAs, cell phones, even household appliances have now embedded systems. All these systems have a potential to communicate with each other. For these requirements, we are working on a real-time Java-based middleware, OSA+ (Open System Architecture - PLatform for Universal Services). Our main objective is to have a small-footprint and scalable real-tim ...

Keywords: dynamic reconfiguration, middleware, real-time

7 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: pdf(248.58 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

8 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

9 Service infastructure and network management: Using code collection to support large applications on mobile devices

Lucian Popa, Irina Athanasiu, Costin Raiciu, Raju Pandey, Radu Teodorescu
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available: pdf(252.95 KB) Additional Information: full citation, abstract, references, index terms

The progress of mobile device technology unfolds a new spectrum of applications that challenges conventional infrastructure models. Most of these devices are perceived by their users as "appliances" rather than computers and accordingly the application management should be done transparently by the underlying system unlike classic applications managed explicitly by the user. Memory management on such devices should consider new types of mobile applications involving code mobility such as mobile ...

Keyw rds: caching, code collection, garbage collection

10 A survey of customizability in operating systems research

G. Denys, F. Piessens, F. Matthijs
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available: pdf(149.83 KB) Additional Information: full citation, abstract, references, index terms

An important goal of an operating system is to make computing and communication resources available in a fair and efficient way to the applications that will run on top of it. To achieve this result, the operating system implements a number of policies for allocating resources to, and sharing resources among applications, and it implements safety mechanisms to guard against misbehaving applications. However, for most of these allocation and sharing tasks, no single optimal policy exists. Differe ...

Keywords: Customizability, microkernels, operating systems, software protection mechanisms

11 Embedded computation meets the World Wide Web

Gaetano Borriello, Roy Want
May 2000 **Communications of the ACM**, Volume 43 Issue 5

Full text available: pdf(456.09 KB) html(41.58 KB) Additional Information: full citation, references, citings, index terms

12 A self-configuring and self-administering name system with dynamic address assignment

February 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 1

Full text available: pdf(908.57 KB) Additional Information: full citation, abstract, references, index terms, review

In this article we present a distributed system that stores name-to-address bindings and provides name resolution to a network of computers. This name system consists of a network of name services that are individually self-configuring and self-administering. The name service consists of an agent program that works in conjunction with the current implementation of the Domain Name System (DNS) program. The DNS agent program automatically configures the Berkeley Internet Name Domain (BIND) process ...

Keywords: Berkeley Internet Name Domain, dynamic reconfiguration, name-to-name address binding, self-administering systems, self-configuring systems

13 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Full text available: pdf(3.15 MB) Additional Information: full citation, index terms

14 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(414.73 KB) Additional Information: full citation, references, citings, index terms

15 Structuring internet media streams with cueing protocols

Jack Brassil, Henning Schulzrinne
August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4

Full text available: pdf(282.39 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new, media-independent protocol for including program timing, structure, and identity information in Internet media streams. The protocol uses signaling messages called *cues* to indicate events whose timing is significant to receivers, such as the start or stop time of a media program. We describe the implementation and operation of a prototype Internet radio station which transmits program cues in audio broadcasts using the Real-Time Transport Protocol (RTP). A collection of ...

Keywords: content delivery networks, multimedia signaling, real-time transport protocol (RTP)

16 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, references, index terms

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

17 Replication requirements in mobile environments

David Ratner, Peter Reiher, Gerald J. Popek, Geoffrey H. Kuenning
November 2001 **Mobile Networks and Applications**, Volume 6 Issue 6

Full text available: pdf(162.59 KB) Additional Information: full citation, abstract, references, index terms

Replication is extremely important in mobile environments because nomadic users require local copies of important data. However, today's replication systems are not "mobile-ready". Instead of improving the mobile user's environment, the replication system actually hinders mobility and complicates mobile operation. Designed for stationary environments, the replication services do not and cannot provide mobile users with the capabilities they require. Replication in mobile environments requires fu ...

Keywords: file systems, mobile computing, replication

18 The Asilomar report on database research

Phil Bernstein, Michael Brodie, Stefano Ceri, David DeWitt, Mike Franklin, Hector Garcia-Molina, Jim Gray, Jerry Held, Joe Hellerstein, H. V. Jagadish, Michael Lesk, Dave Maier, Jeff Naughton, Hamid Pirahesh, Mike Stonebraker, Jeff Ullman
December 1998 **ACM SIGMOD Record**, Volume 27 Issue 4

Full text available: Additional Information:

pdf(660.48 KB) full citation, abstract, citings, index terms

The database research community is rightly proud of success in basic research, and its remarkable record of technology transfer. Now the field needs to radically broaden its research focus to attack the issues of capturing, storing, analyzing, and presenting the vast array of online data. The database research community should embrace a broader research agenda — broadening the definition of database management to embrace all the content of the Web and other online data stores, and ret ...

19 Beyond the snapshot from speculation to prototypes in audiophotography

Heather Martin, Bill Gaver
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: pdf(532.26 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe techniques used to move from a wide variety of speculative concepts to three working prototypes of potentially commercial audiophotography products. Stages in this trajectory included illustrated workbooks, video envisionments, form models and technical drawings, and ended with working prototypes using microprocessors to simulate stand-alone products. These methods were useful in communicating with our partners in a multidisciplinary collaboration. At each stage, ...

Keywords: audiophoto, design methodology, design research, prototypes

20 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools

Jack Greenfield, Keith Short
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: pdf(707.51 KB) Additional Information: full citation, abstract, references, index terms

The confluence of component based development, model driven development and software product lines forms an approach to application development based on the concept of software factories. This approach promises greater gains in productivity and predictability than those produced by incremental improvements to the current paradigm of object orientation, which have not kept pace with innovation in platform technology. Software factories promise to make application assembly more cost effective thro ...

Keywords: design patterns, domain-specific languages, model-driven development, software factories, software product lines

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1 Document formatting: Inter and intra media-object QoS provisioning in adaptive formatters

Rogério Ferreira Rodrigues, Luiz Fernando Gomes Soares

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(483.39 KB) Additional Information: full citation, abstract, references, index terms

The development of hypermedia/multimedia systems requires the implementation of an element, usually known as *formatter*, which is in charge of receiving the specification of a document (structure, media-object relationships and presentation descriptions) and controlling its presentation. The process of controlling and maintaining the presentation of a hyperdocument with an output of acceptable quality is a QoS orchestration problem, which needs to be treated by formatters in two related le ...

Keywords: hyperProp system, hypermedia formatter, media synchronization, quality of service

2 Computer networks (CN): A functional architecture for self-aware routers

Damien Galand, Oliver Marcé

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(300.20 KB) Additional Information: full citation, abstract, references

In this paper, we first present the concept of self-configuration and self-provisioning applied into the scope of the IP routers. A global view of the concepts which are addressed in this document is given, considering the automation level of the operations, and their communication schemes. The node characteristics that are taken into account in the definition of self-configuration and self-provisioning mechanisms are also detailed, introducing the second part of the paper. In this part, a refer ...

Keywords: IP router, self-configuration

3 Self-aware management of IP networks with QoS guarantees

Francine Krief

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Full text available: pdf(204.98 KB) Additional Information: full citation, abstract, references, index terms

Self-aware management allows the network to react and to adapt to changes of situation. In

this paper an architecture is described for self-aware management of IP networks offering QoS guarantees. This architecture uses policy-based management and multi-agent systems. The originality of the present approach lies in the intention to give a real autonomy to the components intervening in the chain of services in terms of internal decisions and configuration. Our solution allows the self-configurati ...

4 Full papers: A taxonomy of DDoS attack and DDoS defense mechanisms

Jelena Mirkovic, Peter Reiher
April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2

Full text available: pdf(209.38 KB) Additional Information: full citation, abstract, references

Distributed denial-of-service (DDoS) is a rapidly growing problem. The multitude and variety of both the attacks and the defense approaches is overwhelming. This paper presents two taxonomies for classifying attacks and defenses, and thus provides researchers with a better understanding of the problem and the current solution space. The attack classification criteria was selected to highlight commonalities and important features of attack strategies, that define challenges and dictate the design ...

5 Service requirements and design methodology: Pitfalls of OWL-S: a practical semantic web use case

Steffen Balzer, Thorsten Liebig, Matthias Wagner
November 2004 **Proceedings of the 2nd international conference on Service oriented computing**

Full text available: pdf(872.04 KB) Additional Information: full citation, abstract, references, index terms

OWL-S is a combined effort of the Semantic Web and the Web Service community to facilitate an intelligent service provisioning on the Semantic Web. The vision of OWL-S includes automatic service discovery, invocation, composition, orchestration and monitoring of Web-Services through their semantic descriptions. In this paper, we investigate the practical applicability of the current OWL-S specification and show that, in spite of the large momentum of OWL-S, significantly more work needs to be ...

Keywords: OWL-S, semantic web services

6 Modelling and performance evaluation of mobile multimedia systems using QoS-GSPN

Tony Tsang
November 2003 **Wireless Networks**, Volume 9 Issue 6

Full text available: pdf(200.92 KB) Additional Information: full citation, abstract, references, index terms

Quality of Service (QoS) measurement of multimedia applications is one of the most important issues for call handoff and call admission control in mobile networks. Based on the QoS measures, we propose a Generalized Stochastic Petri Net (GSPN) based model, called QoS-GSPN, which can express the real-time behavior of QoS measurement for mobile networks. QoS-GSPN performance analysis methodology includes the formal expression and performance analysis environment. It offers the promise of providing ...

Keywords: QoS, QoS-GSPN, mobile system, multimedia system

7 Minerva: An automated resource provisioning tool for large-scale storage systems

Guillermo A. Alvarez, Elizabeth Borowsky, Susie Go, Theodore H. Romer, Ralph Becker-Szendy, Richard Golding, Arif Merchant, Mirjana Spasojevic, Alistair Veitch, John Wilkes
November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4

Full text available: pdf(701.98 KB) Additional Information: full citation, abstract, references, index terms

Enterprise-scale storage systems, which can contain hundreds of host computers and storage devices and up to tens of thousands of disks and logical volumes, are difficult to design. The volume of choices that need to be made is massive, and many choices have unforeseen interactions. Storage system design is tedious and complicated to do by hand, usually leading to solutions that are grossly over-provisioned, substantially under-performing or, in the worst case, both.To solve the configuration ni ...

Keywords: Disk array, RAID, automatic design

8 Service design and modeling: A service re-design methodology for multi-channel adaptation

M. Comerio, F. De Paoli, S. Grega, C. Batini, C. Di Francesco, A. Di Pasquale
November 2004 **Proceedings of the 2nd international conference on Service oriented computing**
Full text available: pdf(632.66 KB) Additional Information: full citation, abstract, references, index terms

Many available services have been designed for a single-channel world, Web and Internet typically. In a real world scenario, an ever-growing number of users take advantage of different kinds of communication channels and devices. In this paper, we propose a methodology to formalize the re-design process of these services to support multi-channel access in different contexts. The methodology considers the channel characteristics, the location of users and the context of use to characterize the ...

Keywords: context of use, location awareness, methodology, multi-channel application, qualities of services, service re-design

9 Game infrastructure: Implementation of a service platform for online games

Anees Shaikh, Sambit Sahu, Marcel Rosu, Michael Shea, Debanjan Saha
August 2004 **Proceedings of ACM SIGCOMM 2004 workshops on NetGames '04: Network and system support for games**
Full text available: pdf(319.22 KB) Additional Information: full citation, abstract, references, index terms

Large-scale multiplayer online games require considerable investment in hosting infrastructures. However, the difficulty of predicting the success of a new title makes investing in dedicated server and network resources very risky. A shared infrastructure based on utility computing models to support multiple games offers an attractive option for game providers whose core competency is not in managing large server deployments.In this paper we describe a prototype implementation of a shared, on de ...

Keywords: game hosting, on demand computing, online games

10 Quality of service: QoS computation and policing in dynamic web service selection

Yutu Liu, Anne H. Ngu, Liang Z. Zeng
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Full text available: pdf(146.50 KB) Additional Information: full citation, abstract, references, citings, index terms

The emerging Service-Oriented Computing (SOC) paradigm promises to enable businesses and organizations to collaborate in an unprecedented way by means of standard web services. To support rapid and dynamic composition of services in this paradigm, web services that meet requesters' functional requirements must be able to be located and bounded dynamically from a large and constantly changing number of service providers based on their Quality of Service (QoS). In order to enable quality-driven we ...

Keywords: QoS, extensible QoS model, ranking of QoS, web services

11 Mobility, roaming, and handoff: Network selection and discovery of service information in public WLAN hotspots

Yui-Wah Lee
October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**
Full text available: pdf(276.09 KB) Additional Information: full citation, abstract, references, index terms

In a public WLAN hotspot, a roaming mobile terminal (MT) may be within radio range of more than one access point (AP), each of which may or may not have roaming agreements with the service provider of the user of the MT. In this case, the MT may need to discover some service information before it can make an intelligent network-selection decision. The most critical is roaming information; while other information such as security policies< ...

Keywords: Wi-Fi, discovery of service information, network selection, public WLAN hotspots, roaming

12 Customer service evaluation in the telephone service provisioning process

Shinya Ozeki, Noriyuki Ikeuchi
December 1992 **Proceedings of the 24th conference on Winter simulation**
Full text available: pdf(726.46 KB) Additional Information: full citation, references, citings, index terms

13 Experimental testbeds and data: Performance optimizations for wireless wide-area networks: comparative study and experimental evaluation

Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt
September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**
Full text available: pdf(262.46 KB) Additional Information: full citation, abstract, references, index terms

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications running over WWAN cellular environments are significantly affected by the vagaries of the cellular wireless medium. Prior research has proposed and analyzed optimizations at individual layers of the protocol stack. In contrast, we introduce the fi ...

Keywords: 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy

14 Papers from Hotnets-II: The cutting EDGE of IP router configuration

Don Caldwell, Anna Gilbert, Joel Gottlieb, Albert Greenberg, Gisli Hjalmtysson, Jennifer Rexford
January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1
Full text available: pdf(199.41 KB) Additional Information: full citation, abstract, references

Human error in configuring routers undermines attempts to provide reliable, predictable end-to-end performance on IP networks. Manual configuration, while expensive and error-prone, is the dominant mode of operation, especially for large enterprise networks. These networks often lack the basic building blocks---an accurate equipment inventory, a

debugged initial configuration, and a specification of local configuration policies---to support the holy grail of automation. We argue the *migrating* ...

15 Learning User Preferences for Wireless Services Provisioning

G. Lee, S. Bauer, P. Faratin, J. Wroclawski
July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**
Full text available: pdf(179.24 KB) Additional Information: full citation, abstract

The problem of interest is how to dynamically allocate wireless access services in a competitive market which implements a take-it-or-leave-it allocation mechanism. In this paper we focus on the subproblem of preference elicitation, given a mechanism. The user, due to a number of cognitive and technical reasons, is assumed to be initially uninformed over their preferences in the wireless domain. The solution we have developed is a closed-loop user-agent system that assists the user in applicatio ...

16 Analysis methodology: Simulation of large networks: modeling and simulation of telecommunication networks for control and management

John S. Baras
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(812.19 KB) Additional Information: full citation, abstract, references

In this paper we describe methodologies for telecommunication networks modeling and simulation that are targeted to be useful as tools in on-line and off-line decision making of the type encountered in network control, management and planning problems. We describe the development, validation and use of self-similar and multi-fractal models, queuing control and performance evaluation, assessing the incremental utility of various models, hierarchical models based on aggregation, analytic approx ...

17 Scientific and business appliations: survey of progress and trend of development and use of automatic data processing in business and management control systems of the Federal Government, as December 1957—II

May 1959 **Communications of the ACM**, Volume 2 Issue 5
Full text available: pdf(609.29 KB) Additional Information: full citation

18 An open architecture for next-generation telecommunication services

Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1
Full text available: pdf(237.24 KB) Additional Information: full citation, abstract, references, index terms

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

19 A distributed networking system for multimedia internet access service using ATM over ADSL

Daniel Won-Kyu Hong, Choong Seon Hong
November 2004 **Internati nal Journal of Network Management**, Volume 14 Issue 6

Full text available: pdf(608.19 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a distributed networking system architecture for Internet-access service provision using ATM over xDSL technology. We describe the hierarchical network model in deploying ADSL services across the ATM access networks, which can easily accommodate the explosive growth of ADSL subscribers in the future. In addition, this paper describes the distributed networking system and its capability to provide a systemic network management using the principal networking concepts of serv ...

20 Adaptive QoS management for IEEE 802.11 future wireless ISPs

Hakima Chaouchi, Anelise Munaretto
July 2004 **Wireless Networks**, Volume 10 Issue 4

Full text available: pdf(299.46 KB) Additional Information: full citation, abstract, references, index terms

Wireless Internet Service Providers (WISPs) are expected to be the new generation of access providers using the emerging IEEE 802.11 technology. Face to the high competition of providing network services, the WISP have to offer the best service to the users. For this purpose, the WISP networks' managers need to provide Quality of Service (QoS) with a minimum cost in their wireless networks. The current link layer IEEE 802.11b provides fair sharing of the radio resource with no service differenti ...

Keywords: IEEE 802.11, ISP business model, QoS framework, policy-based management, traffic differentiation, wireless network

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